



Rigvaimaniki Technologies Private Limited

5-Day Drone Design & Development Training Program

Title: *Foundation Course in Drone Design & Development*

Duration: 5 Days (4–6 hours/day)

Certificate: Issued on successful completion

Level: Beginner to Intermediate

Mode: Offline / Online / Hybrid

Program Schedule

Day	Module	Topics Covered	Mode
1	Drone Fundamentals	Drone types & applications, DGCA overview, drone anatomy, aerodynamics	Lecture + Demo
2	Drone Components & Assembly	Frame, motors, ESC, battery, flight controller — with live assembly demo	Hands-on Workshop
3	Flight Controller & Firmware	Pixhawk/APM basics, Mission Planner, calibration, safety setup	Configuration Lab
4	First Flight & Mission Planning	ESC testing, motor directions, GPS lock, manual & autonomous flights	Field Activity
5	Mini Project + Certification	Team project (e.g., surveillance or payload mission), final demo, feedback, certification	Presentation + Award

Tools & Technologies Used

- Pixhawk/APM Flight Controllers
 - Mission Planner / QGroundControl
 - Drone Kit (modular frame, ESCs, motors, GPS)
 - Simulation: Gazebo / Mission Planner SITL
 - Basic CAD: SolidWorks/Fusion360 (optional overview)
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Certificate Details

Issued by: Rigvaimaniki Technologies

Title: *Certified Trainee in Drone Design & Development*

Includes: Candidate Name, Date, Course Modules, Signature, QR/Certificate ID

Key Takeaways

Participants will:

- Understand drone systems and components
 - Perform basic drone assembly and configuration
 - Plan & execute manual and autonomous flights
 - Receive a verifiable certificate for skills gained
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Optional Add-ons

- Drone Safety & Pilot Awareness Module
- Workshop Kit (for purchase/loan)
- Internship / Hackathon Opportunity

- Guest Session from Industry Experts
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Warm regards,

Jitesh

Director – Drone Education Programs

Rigvaimaniki Technologies Pvt. Ltd.

 [rigvaimanikitechnologies@gmail.com] |  [9782351785] |  www.rigvaimaniki.com